

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1 (cancelled).

Claim 2: A metalworking lubricant composition comprising:

- A) at least one lubricating oil; and
- B) at least one base-catalyzed branched reaction product comprising the following reactants:
  - a) at least one compound of formula I



wherein each X group is a halogen atom or one X group is a halogen atom and two X groups represent an epoxy oxygen atom, which is attached to two adjacent carbon atoms in the  $R^1$  group to form an epoxy group, and  $R^1$  is an alkanetriyl group containing from 3 to 10 carbon atoms; and

- b) at least one compound having the formula II



wherein  $R^2$  is a substituted or unsubstituted, saturated or unsaturated, organic group having from 1 to 36 carbon atoms; X is  $-O-$ ,  $-S-$ , or  $-NR^3-$  where  $R^3$  is hydrocarbon or a  $C_1$ - $C_{18}$  alkyl group; each AO group is independently an ethyleneoxy, 1,2-propyleneoxy, or 1,2-butyleneoxy group, n is a number from 0 to



200; and Y is hydrogen, or Y can be a mercapto group or an amino group or a C<sub>1</sub>-C<sub>6</sub> alkyl amino group in place of a terminal -OH group, provided that when Y is mercapto or an amino group or a C<sub>1</sub>-C<sub>6</sub> alkyl amino group, n is at least 1;

wherein the mole ratio of the linking compound a) to b) is from 0.1:1 to 5:1 wherein the metal working lubricant composition has reduced foaming properties in aqueous and nonaqueous metal working formulations and improved lubricating and extreme pressure properties.

Claim 3: An aqueous electroplating composition comprising :

- A) at least one metal or metalloid; and
- B) at least one base-catalyzed reaction product comprising the following reactants:

- a) at least one compound of formula I



wherein each X group is a halogen atom or one X group is a halogen atom and two X groups represent an epoxy oxygen atom, which is attached to two adjacent carbon atoms in the R<sup>1</sup> group to form an epoxy group, and R<sup>1</sup> is an alkanetriyl group containing from 3 to 10 carbon atoms; and

- b) at least one compound having the formula II



wherein R<sup>2</sup> is a substituted or unsubstituted, saturated or unsaturated, organic group having from 1 to 36 carbon atoms; X is -O-, -S-, or -NR<sup>3</sup>- where R<sup>3</sup> is hydrogen or a C<sub>1</sub>-C<sub>18</sub> alkyl group; each AO group is independently an ethyleneoxy, 1,2-



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propyleneoxy, or 1,2-butylenoxy group,  $n$  is a number from 0 to 200; and  $Y$  is hydrogen, or  $Y$  can be a mercapto group or an amino group or a  $C_1$ - $C_6$  alkylamino group in place of a terminal  $-OH$  group, provided that when  $Y$  is mercapto or an amino group, or a  $C_1$ - $C_6$  alkylamino group,  $n$  is at least 1;

wherein the mole ratio of component a) to b) is from 0.1:1 to 5:1, and wherein the base catalyzed reaction product is not epoxy functional and provides improved brightening and reduced foaming.